

10-06-05

JFW

PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

|   |                        |                      |
|---|------------------------|----------------------|
| <b>TRANSMITTAL<br/>FORM</b><br><br>(to be used for all correspondence after initial filing) | Application Number     | 10/811,430           |
|   | Filing Date            | March 26, 2004       |
|   | First Named Inventor   | Sutardja, Sehat      |
|   | Art Unit               | 2838                 |
|   | Examiner Name          | Nguyen, Matthew Van. |
| Total Number of Pages in This Submission  | Attorney Docket Number | MP0185.D2            |

**ENCLOSURES (check all that apply)**

|  |  |  |
|--|--|--|
| <input type="checkbox"/> Fee Transmittal Form<br><br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment / Reply<br><br><input type="checkbox"/> After Final<br><br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Technology Center (TC)<br><br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input checked="" type="checkbox"/> Other Enclosure(s)<br>(please identify below):<br><br><b>Communication and Return Postcard</b> |
|--|--|--|

**Remarks**

The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

|                         |                                  |               |                    |          |        |
|-------------------------|----------------------------------|---------------|--------------------|----------|--------|
| Firm or Individual name | Harness, Dickey & Pierce, P.L.C. | Attorney Name | Michael D. Wiggins | Reg. No. | 34,754 |
| Signature               |                                  |               |                    |          |        |
| Date                    | October 5, 2005                  |               |                    |          |        |

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

|                       |            |                        |                               |
|-----------------------|------------|------------------------|-------------------------------|
| Typed or printed name | Donna Senn | Express Mail Label No. | EV 717 344 905 US (10/5/2005) |
| Signature             |            | Date                   | October 5, 2005               |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EV 717 344 905 US



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/811,430  
Filing Date: March 26, 2004  
Applicant: Sutardja, Sehat  
Group Art Unit: 2838  
Examiner: Nguyen, Matthew Van.  
Title: ADAPTIVE MULTI-MODE SYSTEM AND  
METHOD  
Attorney Docket: MP0185.D2

---

Mail Stop Issue Fee  
Director of the United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

**COMMUNICATION**

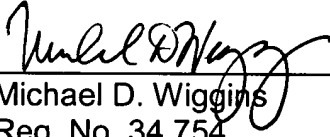
Applicant submitted Supplemental Information Disclosure Statements on August 23, 2005 and September 1, 2005. As of the date of this communication, it appears that the Examiner has not considered and/or signed off on the documents cited therein. Applicant includes herewith copies of the original Forms 1449 that cited the documents. Applicant would like the Examiner to sign off on these references.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned. If necessary, the Commissioner is hereby authorized in this,

concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

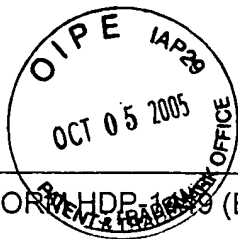
Respectfully submitted,

Dated: 10/5/05

By:   
Michael D. Wiggins  
Reg. No. 34,754

HARNESS, DICKEY & PIERCE, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600

[MDW/dma]



FORM HDP-1 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE**  
**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET No.

SERIAL No.

MP0185.D2

10/811,430

APPLICANT

Sutardja, Sehat et al.

FILING DATE

GROUP

March 26, 2004

2838

**U.S. PATENT DOCUMENTS**

| Ref. Desig. | Examiner's Initials | Document Number | Date       | Name                     | Class/ Subclass | (If appropriate) Filing Date |
|-------------|---------------------|-----------------|------------|--------------------------|-----------------|------------------------------|
| 1.          |                     | 2002/057080 A1  | 5/16/2002  | Telefus, Mark D. et al   |                 |                              |
| 2.          |                     | 2002/105767 A1  | 8/8/2002   | Schuellein, George et al |                 |                              |
| 3.          |                     | 5,949,226 A     | 9/7/1999   | Tanaka et al             |                 |                              |
| 4.          |                     | 6,020,729 A     | 2/1/2000   | Stratakos et al          |                 |                              |
| 5.          |                     | 6,115,266 A     | 9/5/2000   | Matsui et al             |                 |                              |
| 6.          |                     | 6,166,990 A     | 12/26/2000 | Ooishi et al             |                 |                              |
| 7.          |                     | 6,194,883 B1    | 2/27/2001  | Shimamori Hiroshi        |                 |                              |
| 8.          |                     | 6,304,067 B1    | 10/16/2001 | Wrathall, Robert S.      |                 |                              |

**FOREIGN PATENT DOCUMENTS**

| Ref. Desig. | Examiner's Initials | Document Number | Date      | Country | Class/ Subclass | Translation Yes | No |
|-------------|---------------------|-----------------|-----------|---------|-----------------|-----------------|----|
| 1.          |                     | EP 1 179 884 A  | 2/13/2002 | EUROPE  |                 | X               |    |
| 2.          |                     | WO 02/19507 A   | 3/7/2002  | WIPO    |                 | X               |    |
| 3.          |                     | WO 03/001314 A  | 1/3/2003  | WIPO    |                 | X               |    |

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

| Ref. Desig. | Examiner's Initials |   |
|-------------|---------------------|---|
| 1.          |                     | Communication dated 07.20.05 for the European Search Report Application No. 04023251.4 - 2206 |
| 2.          |                     | Communication dated 07.20.05 for the European Search Report Application No. 04023259.7 - 2206 |

Examiner:

Date Considered:

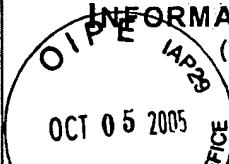
EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|  |                        |            |
|--|------------------------|------------|
| <b>FORM HDP-1449 (Based on Form PTO-1449)</b><br><br><b>PATENT AND TRADEMARK OFFICE</b><br><b>INFORMATION DISCLOSURE CITATION</b><br>(Use several sheets if necessary)<br><br>Sheet 2 of 2 | ATTORNEY DOCKET NO.    | SERIAL NO. |
|  | MP0185.D2              | 10/811,430 |
|  | APPLICANT              |            |
|  | Sutardja, Sehat et al. |            |
|  | FILING DATE            | GROUP      |
|  | March 26, 2004         | 2838       |

| OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.) |                     |  |
|--|---------------------|--|
| Ref. Desig.  | Examiner's Initials |  |
| 3.   |                     | Communication dated 06.30.05 for the European Search Report Application No. 04023234.0 - 2206  |
| 4.   |                     | Communication dated 06.30.05 for the European Search Report Application No. 04023247.2 - 2206  |
| 5.   |                     | Communication dated 06.16.05 for the European Search Report Application No. 04023249.8 - 2206  |
| 6.   |                     | Communication dated 07.04.05 for the European Search Report Application No. 04023192.0 - 2206  |
| 7.   |                     | Peterchev A V et al: "Quantization resolution and limit cycling in digitally controlled PWM converters" 32nd Annual IEEE Power Electronics Specialists Conference. PESC 2001. Conference Proceedings. Vancouver, Canada, June 17 - 21, 2001, Annual Power Electronics Specialists Conference, New York, NY: IEEE, US, Vol. 1 of 4. Conf. 32, 17 June 2001 (2001-06-17), pages 465-471, XP010559271 ISBN: 0-7803-7067-8 |

|           |                  |
|-----------|------------------|
| Examiner: | Date Considered: |
|-----------|------------------|

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|  |  |                        |            |
|--|--|------------------------|------------|
| <b>FORM HDP-1449 (Based on Form PTO-1449)</b><br><br><b>PATENT AND TRADEMARK OFFICE</b><br><b>INFORMATION DISCLOSURE CITATION</b><br>(Use several sheets if necessary) |  | ATTORNEY DOCKET NO.    | SERIAL NO. |
|  |  | MP0185.D2              | 10/811,430 |
|  |  | APPLICANT              |            |
|  |  | Sutardja, Sehat et al. |            |
|    |  | FILING DATE            |            |
|  |  | March 26, 2004         |            |
| Sheet 1 of 1   |  | GROUP                  |            |
|  |  | 2838                   |            |

| U.S. PATENT DOCUMENTS |                     |                 |           |                              |                 |                              |
|-----------------------|---------------------|-----------------|-----------|------------------------------|-----------------|------------------------------|
| Ref. Desig.           | Examiner's Initials | Document Number | Date      | Name                         | Class/ Subclass | (If appropriate) Filing Date |
| 1.                    |                     | 2001/036085 A1  | 11/1/2001 | Narita Yuki                  |                 |                              |
| 2.                    |                     | 5,563,779 A     | 10/8/1996 | Cave et al.                  |                 |                              |
| 3.                    |                     | 6,215,288 B1    | 4/10/2001 | Ramsey, Carl A. et al.       |                 |                              |
| 4.                    |                     | 6,232,754 B1    | 5/15/2001 | Liebler, Jerome Edgar et al. |                 |                              |

| FOREIGN PATENT DOCUMENTS |                     |                 |           |         |                 |                    |
|--------------------------|---------------------|-----------------|-----------|---------|-----------------|--------------------|
| Ref. Desig.              | Examiner's Initials | Document Number | Date      | Country | Class/ Subclass | Translation Yes No |
| 1.                       |                     | EP 0 524 398 A  | 1/27/1993 | EUROPE  |                 | X                  |
| 2.                       |                     | WO 02/31951     | 4/18/2002 | WIPO    |                 | X                  |

| OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.) |                     |  |
|--|---------------------|--|
| Ref. Desig.  | Examiner's Initials |  |
| 1.   |                     | Communication dated 07.07.05 for the partial European Search Report Application No. EP 04023256.3-2206 |

|           |                  |
|-----------|------------------|
| Examiner: | Date Considered: |
|-----------|------------------|

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.